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**WRaP-IT: WHIRL Represented as Polyhedra - Interface Tool**

WHIRL:Winning **Hierarchical Intermediate Representation** Language. The Intermediate representation of the open source ORC compiler. ...

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**ORC: Open Research Compiler**

... and the matching levels of the Intermediate Representation: the WHIRL (Winning **Hierarchical Intermediate Representation** Language). ...

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**[PDF] Interface et extension de Open Research Compiler**

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Winning **Hierarchical Intermediate Representation**. Language. 5 niveaux: VH, H, M, L, VL. lowering. entre niveaux. Chaque optimization au bon niveau. ...

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**[PDF] Overview of ORC**

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IR: Winning **Hierarchical Intermediate Representation** Language. Tree structured.

Overview of ORC – p.6/47. Page 7. WHIRL ...

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**[PPT] Compiler Features**

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There are no source-to-source optimizers or parallelizers; Source code is translated to WHIRL (Winning **Hierarchical Intermediate Representation** Language); ...

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This **hierarchical intermediate representation** facilitates the manipulation of. program structures such as loops and blocks of statements. ...

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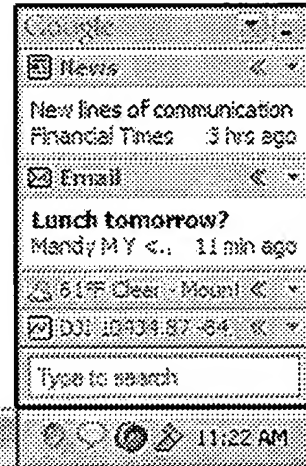
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**SPARK: A high-level synthesis framework for applying parallelizing compiler transformations - group of 16 »**

S Gupta, ND Dutt, RK Gupta, A Nicolau - International Conference on VLSI Design, 2003 - [ieeexplore.ieee.org](#)

... This input description is parsed into a **hierarchical intermediate representation** described in Section 4. The core of the synthesis system has a transform ...

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**Dynamically increasing the scope of code motions during the high-level synthesis of digital circuits - group of 9 »**

S Gupta, N Dutt, R Gupta, A Nicolau - IEE PROCEEDINGS COMPUTERS AND DIGITAL TECHNIQUES, 2003 - [ieeexplore.ieee.org](#)

... We capture the control flow between basic blocks using a **hierarchical intermediate representation** called hierarchical task graphs (HTGs) [15, 16]. ...

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**[PS] Interface et extension de Open Research Compiler - group of 2 »**

S Pop - [www-rocq.inria.fr](#)

... However traductions have to keep correct execution-equivalence . 4 Page 5.

2.2.1 Winning **Hierarchical Intermediate Representation** (WHIRL) ...

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**Putting Polyhedral Loop Transformations to Work - group of 4 »**

C Bastoul, A Cohen, S Girbal, S Sharma, O Temam - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer

Page 1. Putting Polyhedral Loop Transformations to Work Cedric Bastoul 1,3 , Albert

Cohen 1 , Sylvain Girbal 1,2,4 , Saurabh Sharma 1 , and Olivier Temam 2 ...

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**[PS] POWER-AWARE COMPILATION TECHNIQUES FOR HIGH PERFORMANCE PROCESSORS - group of 2 »**

H Yang - 2004 - [capsl.udel.edu](#)

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by Hongbo Yang A dissertation submitted to the Faculty ...

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**Using Global Code Motions to Improve the Quality of Results for High-Level Synthesis - group of 4 »**

SGN Savoiu, NDRGA Nicolau - [ics.uci.edu](#)

... function recursion. This input description is parsed into a **hierarchical intermediate representation** described in Section 4.1. The ...

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**Automated Multi-Tier System Design for Service Availability - group of 6 »**

GJ Janakiraman, JR Santos, Y Turner - 1st Workshop on Design of Self-Managing Systems (at DSN 200) ..., 2003 - [hpl.hp.com](#)

... **intermediate representation** of a service design, it also calculates the design's cost, which is the sum of the cost of the components ...

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Coordinated Parallelizing Compiler Optimizations and High-Level Synthesis - group of 10 »

S Gupta, RK Gupta, ND Dutt, A Nicolau - ACM Transactions on Design Automation of Electronic Systems, 2004 - portal.acm.org

... 4.1 HTGs: A Hierarchical Intermediate Representation for Control-Intensive Designs

We define a hierarchical task graph as follows: Definition 4.1. ...

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[BOOK] SPARK: A Parallelizing Approach to the High-Level Synthesis of Digital Circuits

S Gupta, ND Dutt, R Gupta, A Nicolau - 2004 - books.google.com

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Facilitating the search for compositions of program transformations - group of 2 »

A Cohen, S Girbal, D Parelo, M Sigler, O Temam, N ... - ACM Int. Conf. on Supercomputing (ICS'05) - portal.acm.org

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### 1 [Session 4: compilers 1: Facilitating the search for compositions of program](#)



#### [transformations](#)

Albert Cohen, Marc Sigler, Sylvain Girbal, Olivier Temam, David Parelo, Nicolas Vasilache  
 June 2005 **Proceedings of the 19th annual international conference on Supercomputing ICS '05**

Publisher: ACM Press

 Full text available: [pdf\(365.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Static compiler optimizations can hardly cope with the complex run-time behavior and hardware components interplay of modern processor architectures. Multiple architectural phenomena occur and interact simultaneously, which requires the optimizer to combine multiple program transformations. Whether these transformations are selected through static analysis and models, runtime feedback, or both, the underlying infrastructure must have the ability to perform long and complex compositions of progra ...

### 2 [Coordinated parallelizing compiler optimizations and high-level synthesis](#)



Sumit Gupta, Rajesh Kumar Gupta, Nikil D. Dutt, Alexandru Nicolau  
 October 2004 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 9 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(923.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a high-level synthesis methodology that applies a coordinated set of coarse-grain and fine-grain parallelizing transformations. The transformations are applied both during a pre-synthesis phase and during scheduling, with the objective of optimizing the results of synthesis and reducing the impact of control flow constructs on the quality of results. We first apply a set of source level presynthesis transformations that include common sub-expression elimination (CSE), copy propagat ...

**Keywords:** Code motions, common subexpression elimination, dynamic CSE, embedded systems, high-level synthesis, parallelizing transformations, presynthesis

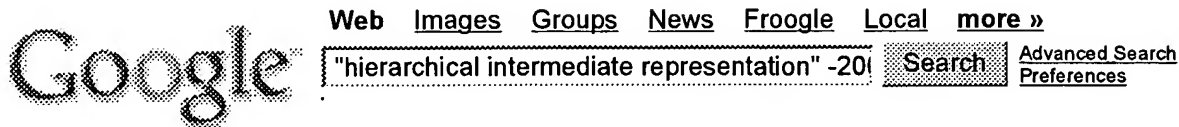
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23	BRS	L31	2	"6662356".pn. and (return adj information)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/15 18:59
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